

03/12/14 Agenda:

- **Turn in any late work!**

- **I'm collecting Review Packets, pass them forward!**

- **Chapter 7 Test**

- The test looks a LOT like the quiz but the exponents are different!

- Homework

- None

$$a^m a^n = a^{m+n}$$

$$a^2 \cdot a \cdot a^4 = a^7$$

$$2y^3 \cdot 6y^3 = 12y^6$$

.....

$$(a^m)^n = a^{mn}$$

$$(c^2)^5 = c^{10}$$

.....

$$(ab)^m = a^m b^m \quad (4x^2 y^3 z)^3 = 4^3 x^6 y^9 z^3 = 64x^6 y^9 z^3$$

.....

$$\frac{a^m}{a^n} = a^{m-n}$$

$$\frac{x^6 y^2}{x^2 y} = x^4 y$$

$$\frac{3a^4 b^3}{6b^2} = \frac{1}{2} a^4 b \quad \text{or} \quad \frac{a^4 b}{2}$$

$$\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m} \qquad \left(\frac{2x}{y^3}\right)^4 = \frac{2^4 x^4}{y^{3 \cdot 4}} = \frac{16x^4}{y^{12}}$$

.....

$$a^0 = 1$$

$$5ab^0 = 5 \cdot a \cdot 1 = 5a$$

.....

$$a^{-n} = \frac{1}{a^n} \qquad \frac{1}{a^{-n}} = a^n$$

$$\frac{8}{2s^{-3}} = \frac{8s^3}{2} = 4s^3$$